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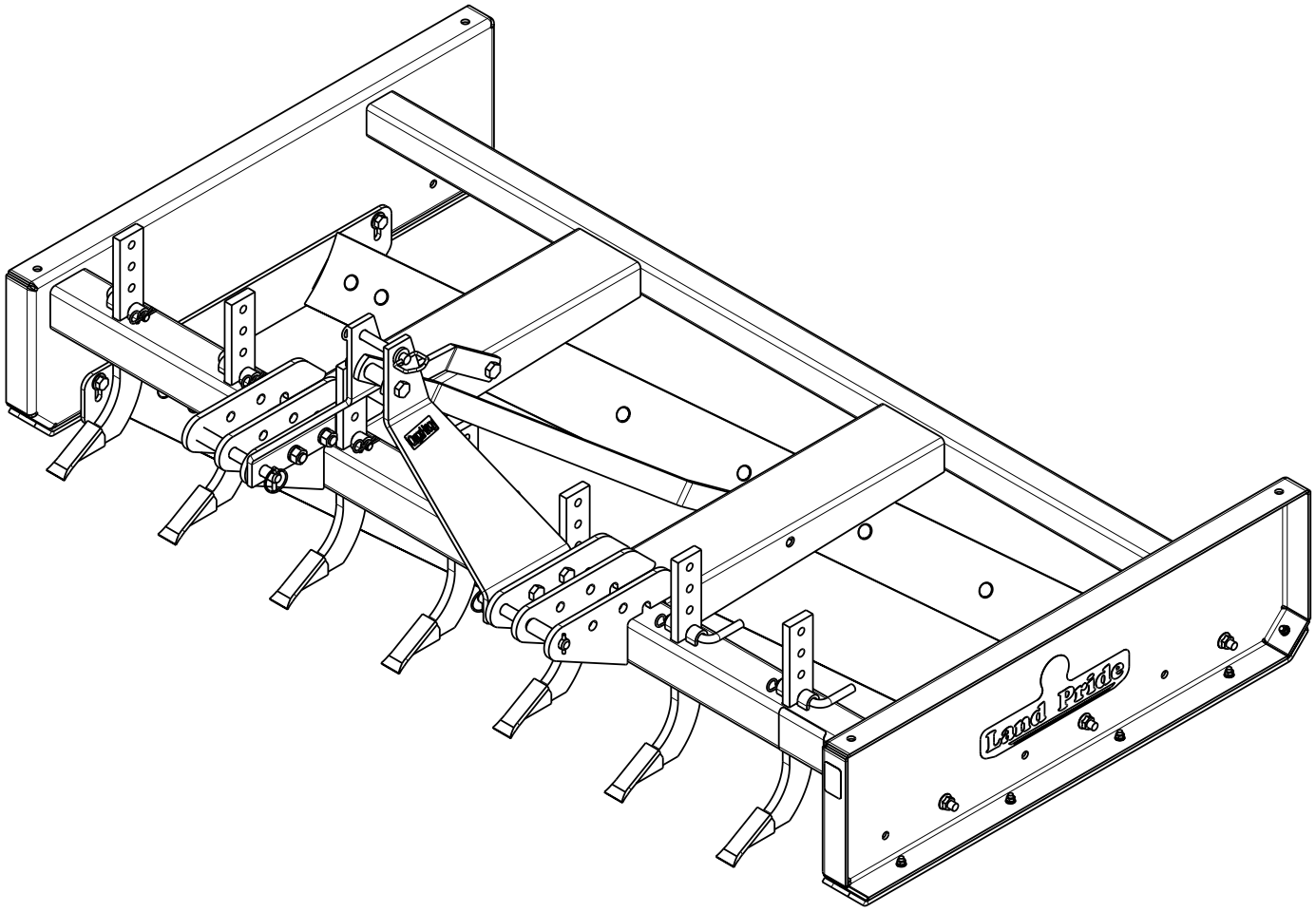
Grading Scrapers

GS2584 & GS2596



26654

Pictured with optional Scarifier Shanks

303-268M

Operator's Manual

Land Pride

Read the Operator's manual entirely. When you see this symbol, the subsequent instructions and warnings are serious - follow without exception. Your life and the lives of others depend on it!

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Cover photo may show optional equipment not supplied with standard unit.

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Printed in the United States of America.

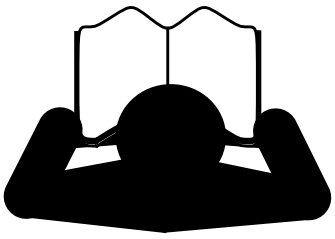
These are common practices that may or may not be applicable to the products described in this manual.

Safety at All Times

Thoroughly read and understand the instructions given in this manual before operation. Refer to the "Safety Label" section, read all instructions noted on them.

Do not allow anyone to operate this equipment who has not fully read and comprehended this manual and who has not been properly trained in the safe operation of the equipment.

- ▲ Operator should be familiar with all functions of the unit.
- ▲ Operate implement from the driver's seat only.
- ▲ Make sure all guards and shields are in place and secured before operating implement.
- ▲ Do not leave tractor or implement unattended with engine running.
- ▲ Dismounting from a moving tractor could cause serious injury or death.
- ▲ Do not allow anyone to stand between the tractor and implement while backing up to the implement.
- ▲ Keep hands, feet, and clothing away from power-driven parts.
- ▲ Wear snug fitting clothing to avoid entanglement with moving parts.
- ▲ Watch out for wires, trees, etc., when raising implement. Make sure all persons are clear of working area.
- ▲ Turning tractor too tight may cause implement to ride up on wheels. This could result in injury or equipment damage.
- ▲ Do not carry passengers on implement at any time.



Look For The Safety Alert Symbol

The SAFETY ALERT SYMBOL indicates there is a potential hazard to personal safety involved and extra safety precaution must be taken. When you see this symbol, be alert and carefully read the message that follows it. In addition to design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

Be Aware of Signal Words

A Signal word designates a degree or level of hazard seriousness. The signal words are:

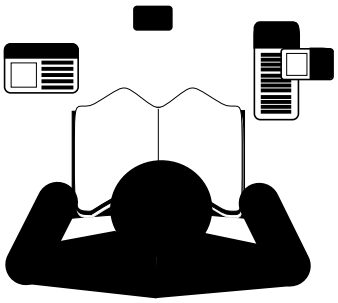
DANGER
Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations, typically for machine components that, for functional purposes, cannot be guarded.

WARNING
Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

CAUTION
Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

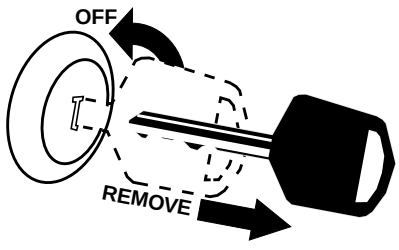
For Your Protection

- ▲ Thoroughly read and understand the "Safety Label" section, read all instructions noted on them.



Shutdown and Storage

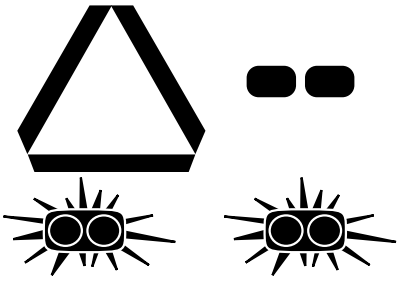
- ▲ Lower machine to ground, put tractor in park, turn off engine, and remove the key.
- ▲ Detach and store implements in a area where children normally do not play. Secure implement by using blocks and supports.



These are common practices that may or may not be applicable to the products described in this manual.

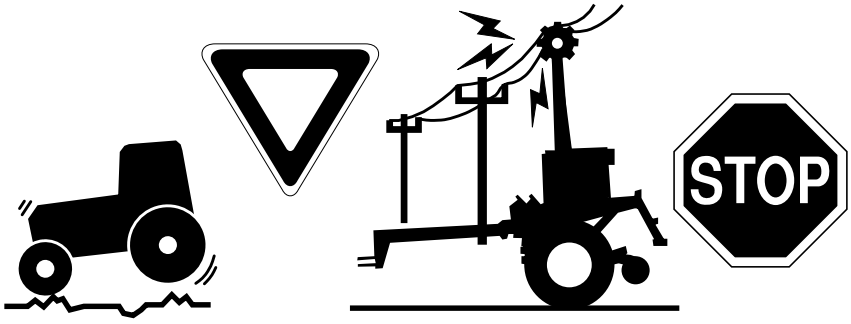
Use Safety Lights and Devices

- ▲ Slow moving tractors, self-propelled equipment, and towed implements can create a hazard when driven on public roads. They are difficult to see, especially at night.
- ▲ Flashing warning lights and turn signals are recommended whenever driving on public roads. Use lights and devices provided with implement.



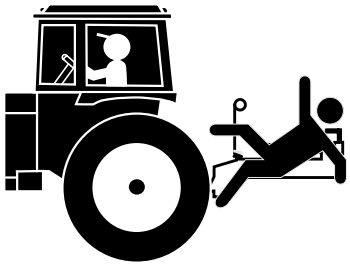
Transport Machinery Safely

- ▲ Comply with state and local laws.
- ▲ Maximum transport speed for implement is 20 mph. DO NOT EXCEED. Never travel at a speed which does not allow adequate control of steering and stopping. Some rough terrain require a slower speed.
- ▲ Sudden braking can cause a towed load to swerve and upset. Reduce speed if towed load is not equipped with brakes.
- ▲ Use the following maximum speed - tow load weight ratios as a guideline:
- ▲ **20 mph** when weight is less than or equal to the weight of tractor.
- ▲ **10 mph** when weight is double the weight of tractor.
- ▲ **IMPORTANT:** Do not tow a load that is more than double the weight of tractor.



Keep Riders Off Machinery

- ▲ Riders obstruct the operator's view, they could be struck by foreign objects or thrown from the machine.
- ▲ Never allow children to operate equipment.



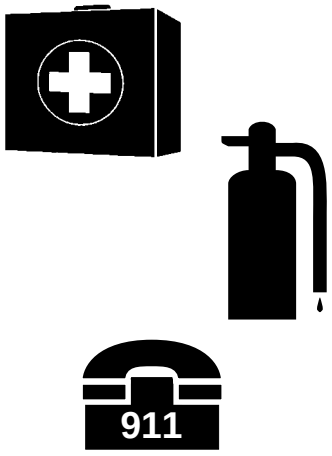
Practice Safe Maintenance

- ▲ Understand procedure before doing work. Use proper tools and equipment, refer to Operator's Manual for additional information.
- ▲ Work in a clean dry area.
- ▲ Lower the implement to the ground, put tractor in park, turn off engine, and remove key before performing maintenance.
- ▲ Allow implement to cool completely.
- ▲ Do not grease or oil implement while it is in operation.
- ▲ Inspect all parts. Make sure parts are in good condition & installed properly.
- ▲ Remove buildup of grease, oil or debris.
- ▲ Remove all tools and unused parts from implement before operation.

These are common practices that may or may not be applicable to the products described in this manual.

Prepare for Emergencies

- ▲ Be prepared if a fire starts.
- ▲ Keep a first aid kit and fire extinguisher handy.
- ▲ Keep emergency numbers for doctor, ambulance, hospital and fire department near phone.



Wear Protective Equipment

- ▲ Protective clothing and equipment should be worn.
- ▲ Wear clothing and equipment appropriate for the job. Avoid loose fitting clothing.
- ▲ Prolonged exposure to loud noise can cause hearing impairment or hearing loss. Wear suitable hearing protection such as earmuffs or earplugs.
- ▲ Operating equipment safely requires the full attention of the operator. Avoid wearing radio headphones while operating machinery.

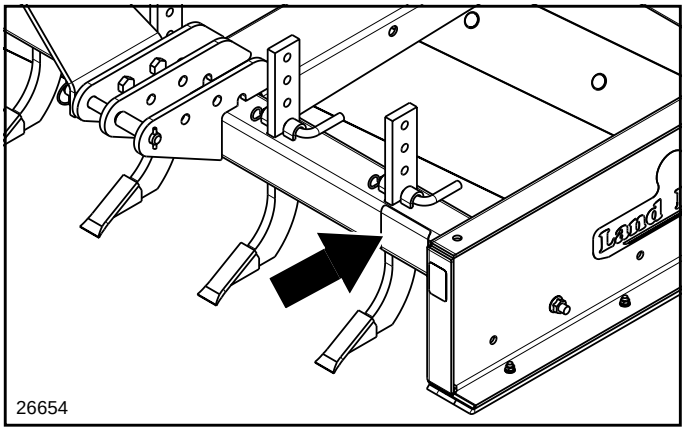
Avoid High Pressure Fluids Hazard

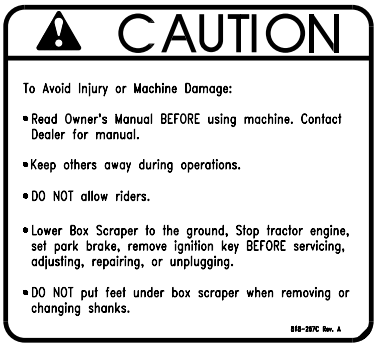
- ▲ Escaping fluid under pressure can penetrate the skin causing serious injury.
- ▲ Avoid the hazard by relieving pressure before disconnecting hydraulic lines or performing work on the system.
- ▲ Make sure all hydraulic fluid connections are tight and all hydraulic hoses and lines are in good condition before applying pressure to the system.
- ▲ Use a piece of paper or cardboard, NOT BODY PARTS, to check for suspected leaks.
- ▲ Wear protective gloves and safety glasses or goggles when working with hydraulic systems.
- ▲ If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be treated within a few hours or gangrene may result.

Safety Labels

Your Grading Scraper comes equipped with all safety labels in place. They were designed to help you safely operate your implement. Read and follow their directions.

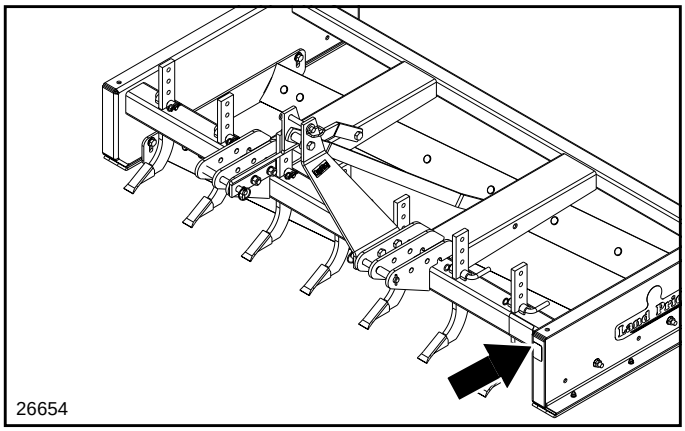
1. *Keep all safety labels clean and legible.*
2. *Replace all damaged or missing labels. To order new labels go to your nearest Land Pride dealer or visit our dealer locator at landpride.com.*
3. *Some new equipment installed during repair requires safety labels to be affixed to the replaced component as specified by Land Pride. When ordering new components make sure the correct safety labels are included in the request.*
4. *Refer to this section for proper label placement.*
   To install new labels:
   a. *Clean the area the label is to be placed.*
   b. *Spray soapy water on the surface where the label is to be placed.*
   c. *Peel backing from label. Press firmly onto the surface.*
   d. *Squeeze out air bubbles with the edge of a credit card.*




CAUTION
To Avoid Injury or Machine Damage:
• Read Owner's Manual BEFORE using machine. Contact Dealer for manual.
• Keep others away during operations.
• DO NOT allow riders.
• Lower Box Scraper to the ground, Stop tractor engine, set park brake, remove ignition key BEFORE servicing, adjusting, repairing, or unplugging.
• DO NOT put feet under box scraper when removing or changing shanks.

818-267C

Caution Avoid Injury



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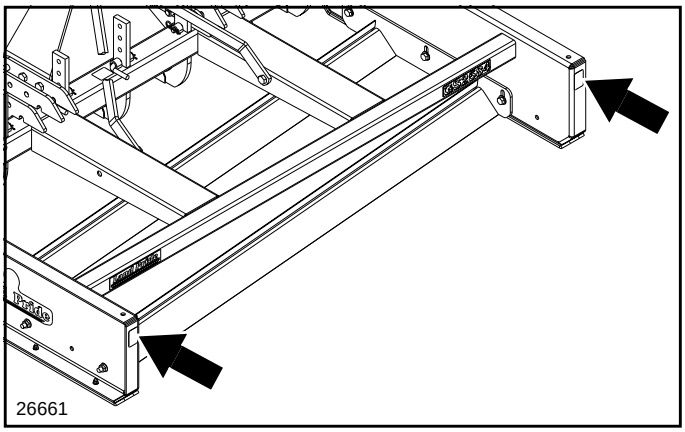
Amber Reflector



818-230C

Red Reflector

Land Pride welcomes you to the growing family of new product owners.

This Grading Scraper has been designed with care and built by skilled workers using quality materials. Proper assembly, maintenance and safe operating practices will help you get years of satisfactory use from the machine.

Application

The Land Pride GS25 Series Grading Scrapers come in 84" and 96" working widths with a Category l & ll 3-point hitch for attaching to tractors in the 40-90 hp working range. The hitch is also Quick Hitch compatible.

Grading Scrapers have uses and applications in landscaping, farms, ranches, construction sites, hunting camps, fishing camps, logging sites, mining operations, large estates, small acreages, sod farms, and municipal and county rural road maintenance facilities. These Grading Scrapers are uniquely designed to be extra user friendly and a low cost alternative for road grading applications. Unlike a box scraper, they are not designed to transfer large volumes of dirt from one location to another and as a result do not require the additional horsepower that a box scraper normally requires. Nor does it require the tending of tractor 3-point lift controls to maintain grade that a box scraper might require.

Simply setting a properly adjusted GS Series Grading Scraper on the ground and driving forward enables the operator to grade off high spots and fill in ruts and low spots on unimproved roads and lanes with little or no manipulation of the tractors 3-point hitch controls. Unlike a rear blade, they require no adjustment of blade angling or offset positions. The GS Series Grading Scraper simply and quickly moves dirt or aggregate from high spots to low spots. Should a large accumulation of unwanted buildup of soil or aggregate occur between the blades, initiating a slight raise on the tractors lift controls will allow excess material to flow out uniformly and evenly under the leveling scraper blades.

See “**Section 6: Specifications & Capacities**” on page 15 and “**Section 7: Features and Benefits**” on page 16 for additional information and performance enhancing options.

Using This Manual

- This Operator’s Manual is designed to help familiarize you with safety, assembly, operation, adjustments, troubleshooting, and maintenance. Read this manual and follow the recommendations to help ensure safe and efficient operation.
- The information contained within this manual was current at the time of printing. Some parts may change slightly to assure you of the best performance.
- To order a new Operator’s or Parts Manual contact your authorized dealer. Manuals can also be downloaded, free-of-charge from our website at www.landpride.com.

Terminology

“Right” or “Left” as used in this manual is determined by facing the direction the machine will operate while in use unless otherwise stated.

Definitions

NOTE: A special point of information that the operator must be aware of before continuing.

IMPORTANT: A special point of information related to its preceding topic. Land Pride’s intention is that this information should be read and noted before continuing.

Owner Assistance

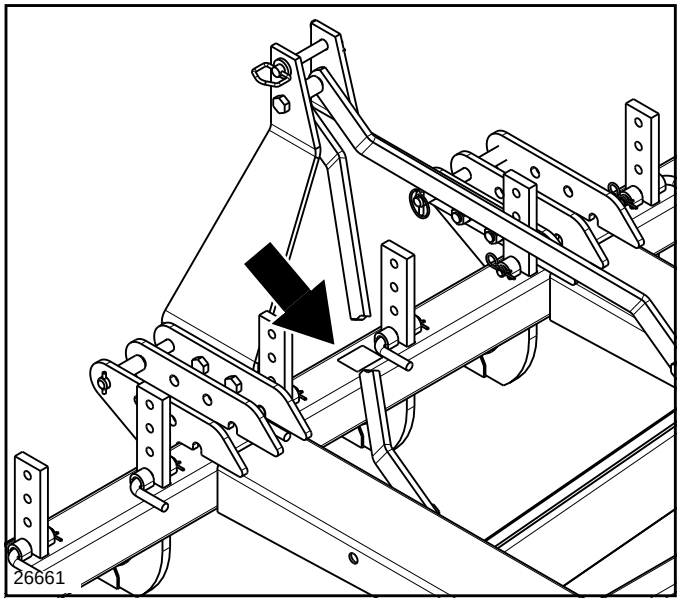
The Warranty Registration card should be filled out by the dealer at the time of purchase. This information is necessary to provide you with quality customer service.

If customer service or repair parts are required contact a Land Pride dealer. A dealer has trained personnel, repair parts and equipment needed to service the Grading Scraper.

The parts on your GS25 Series Grading Scraper have been specially designed and should only be replaced with genuine Land Pride parts. Therefore, should your scraper require replacement parts go to your Land Pride Dealer.

Serial Number Plate

For prompt service always use the serial number and model number when ordering parts from your Land Pride dealer. Be sure to include your serial and model numbers in correspondence also. Refer to Figure 1 for the location of your serial number plate.



Serial Number Plate Location
Figure 1

Further Assistance

Your dealer wants you to be satisfied with your new Grading Scraper. If for any reason you do not understand any part of this manual or are not satisfied with the service received, the following actions are suggested:

1. Discuss the matter with your dealership service manager making sure he is aware of any problems you may have and that he has had the opportunity to assist you.
2. If you are still not satisfied, seek out the owner or general manager of the dealership, explain the problem and request assistance.
3. For further assistance write to:

Land Pride Service Department
1525 East North Street
P.O. Box 5060
Salina, Ks. 67402-5060

E-mail address
lpservicedept@landpride.com

Tractor Requirements

The GS25 Series Grading Scrapers are designed for Category l and ll 3-point hitches. Horsepower rating of tractor should be between 40 and 90 hp.

IMPORTANT: You could loose steering control if your tractor is too light. Refer to your tractor's manual to determine if additional ballast is needed.

Torque Requirements

Refer to "Torque Values Chart" on page 17 to determine correct torque values or fasteners during assembly.

Dealer Assembly

Refer to Figure 1-1:

1. Attach rear hitch braces (#2) to channel cross members as shown with 3/4"-10 x 2" GR5 hex cap screws (#7), 3/4" lockwashers (#10) and 3/4" hex nuts (#9). Do not tighten hardware.
2. Orient front hitch straps (#3 & 4) so that upper link holes (A) are vertically aligned with lower holes (B).
3. Remove linch pins (#11) and pull lower hitch pins (#5) back about 1" on both sides.
4. Attach front hitch straps to rear holes in clevis with hex cap screws (#7), 3/4" lockwashers (#10) and 3/4" hex nuts (#9) as shown. Do not tighten hardware.
5. Reinsert lower hitch pins (#5) with bushings (#1) and secure with linch pins (#11).
6. Place hitch braces (#2) inside hitch straps (#3 & 4). Place 2" long spacer (#6) between hitch braces and insert 3/4"-10 x 5" GR5 hex head cap screw (#8) through hitch straps, hitch braces and spacer as shown. Secure assembly with 3/4" lockwasher (#10) and 34" hex nut (#9).
7. Tighten all 3/4" bolts (#7 & 8) to the correct torque. Make sure hitch pins (#5) are loose. If not, readjust hitch frames (#3 & 4) and retighten bolts (#7 & 8).
8. Install 3/4" x 3 3/4" hitch pin (#13) to hitch straps and secure in place with hairpin cotter (#14).

Shank Installation (Optional)

Shanks are shipped assembled when purchased with Grading Scraper. Install shanks as instructed below if purchased separate.

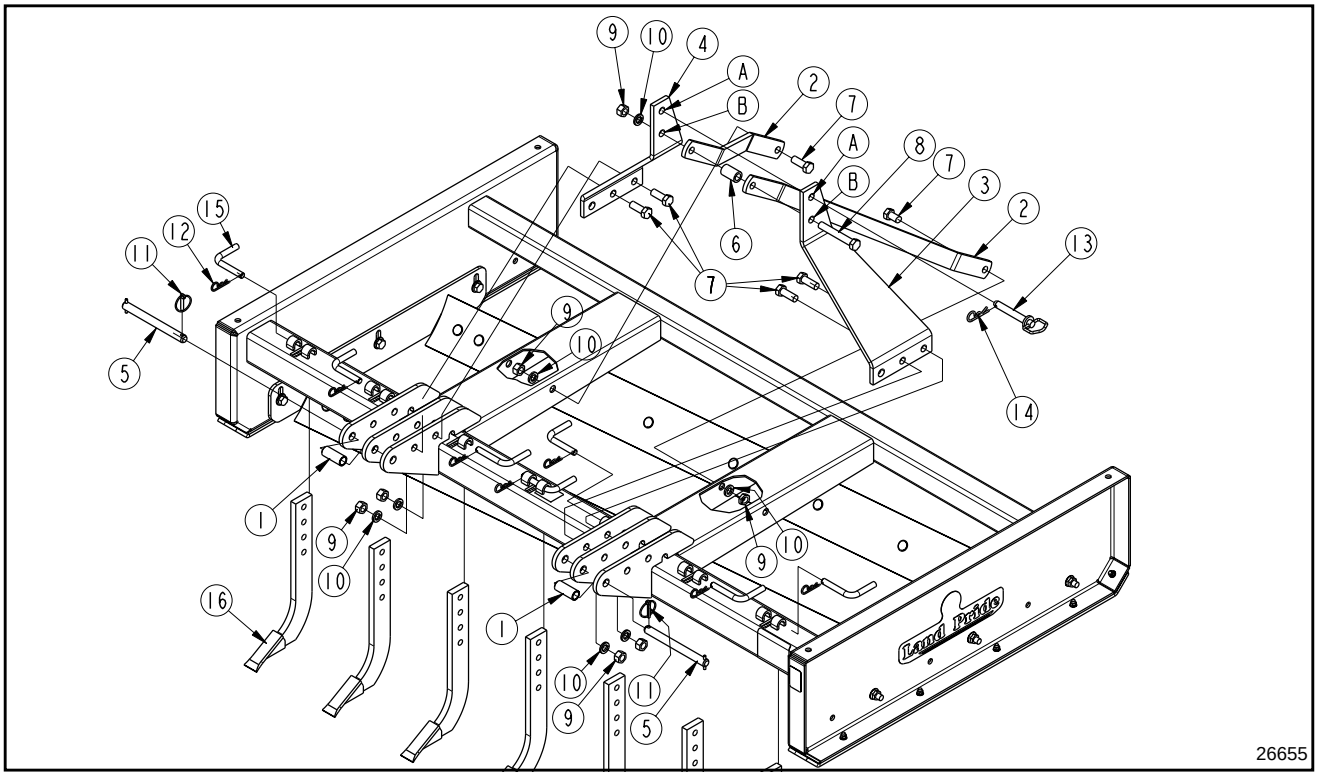
⚠ CAUTION

Keep your feet and legs out from under the shanks. They can fall during installation causing injury to your body.

Before installing shanks (#16), attach Grading Scraper to the tractor's 3-point hitch or raise front of scraper up and support it with blocks.

1. Remove shanks (#16) from shipping crate and insert them into the front slots with tips pointing forward.
2. Secure shanks with lock pins (#15) and hairpin cotters (#12).

NOTE: See Section 2: Adjustments for shank depth.



Hitch and Shank Set-up
Figure 1-1

3-Point Hook-up

Refer to Figure 1-2:

DANGER

A Crushing Hazard exist when hooking-up equipment to a tractor. ***Do not*** *allow anyone to stand between the tractor and implement while backing-up to the implement.* ***Do not*** *operate hydraulic 3-point lift controls while someone is directly behind the tractor or near the implement.*

A 3-point Category I or Category ll hitch is required. The lower 3-point arms of the 3-point hitch must be stabilized to prevent side-to-side movement. Most tractors have sway blocks or adjustable chains for this purpose.

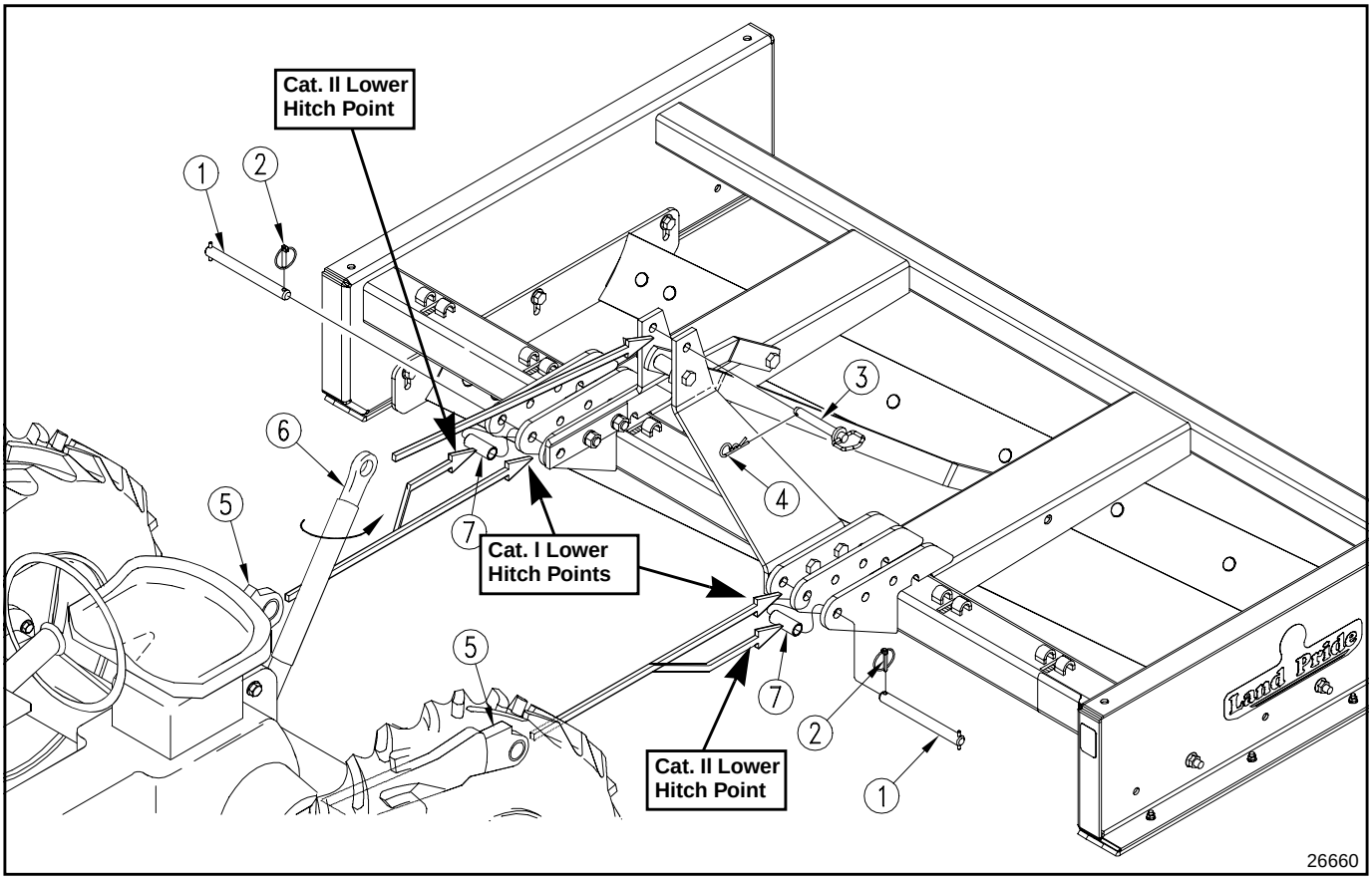
1. Determine your tractor's hitch category.
   a. A **Category I** tractor will have 7/8" dia. holes in the lower hitch links and 3/4" dia. hole in the top link.
   b. A **Category II** tractor will have 1 1/8" dia. holes in the lower hitch links and 1" dia hole in the top link.

NOTE: See Figure 1-2 below for correction location of Cat. I and Cat. II lower hitching points.

2. Slowly back tractor up to the Grading Scraper while using the tractor's 3-point hydraulic control to align lower hitch arm holes with lower hitch holes.
3. Engage tractor park brake, shut tractor engine off and remove key before dismounting from tractor.
4. If your tractor has a Category II hitch, then insert 1 1/8" outside diameter bushings (#7) into the lower hitch arm holes before installing hitch pins (#1). Insert hitch pins (#1) through clevis lug holes and lower hitch arm holes as shown. Secure hitch pins with linch pins (#2)

NOTE: It may be necessary to start your tractor and slowly raise the 3-point hitch about 1-2" to align the center link with the center hitch pin hole.

5. Connect top center link (#6) to upper pivot hitch using clevis pin (#3) and hairpin cotter (#4). If your tractor hitch is a Category II hitch, then a 1" bushing (not supplied) will be required to make the center link hook-up.
6. Ensure that the lower hitch arms are stabilized to prevent excessive side movement.
7. Return to the tractor and slowly operate controls up and down to check for clearance between scraper frame, tractor tires, and tractor drawbar. Move or remove drawbar if it interferes with the scraper.
8. See "Leveling Scraper" on page 9.



Tractor 3-Point Hitch
Figure 1-2

Leveling Scraper

CAUTION

Always keep your feet and legs out from under the Grading Scraper. Hydraulics can drop equipment if controls are actuated or if hydraulic lines burst even when power to the hydraulics is shut off.

The Grading Scraper should be leveled from left to right and front to back.

1. Park tractor with Grading Scraper on a level surface.
2. Engage tractor park brake, shut tractor engine off and remove key before dismounting from tractor.
3. Manually adjust one of the lower lift arms on the tractor up or down to level the Grading Scraper from left to right.
4. Manually adjust length of top-center-link to level scraper from front to rear.

Blade Height Adjustment

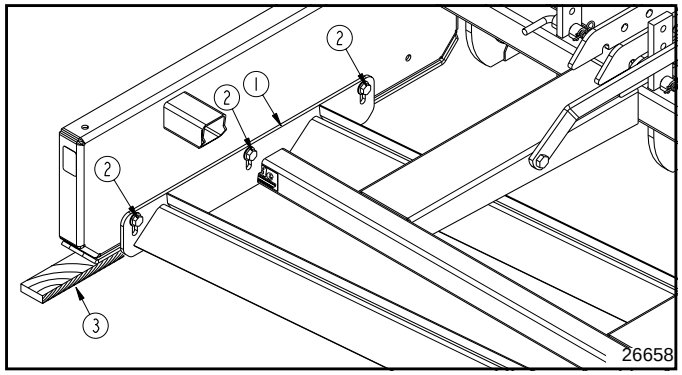
CAUTION

Always keep your feet and hands out from under the blade carrier when adjusting cutting blade height. Blade carrier will fall when loosening bolts.

Refer to Figure 2-1:

The blade carrier (#1) can be lowered or raised equal amounts on both sides of the scraper to grade a surface level. Position cutting edges even with the bottom of skid shoes for non-aggressive grading action or adjust the cutting edges infinitely downward to 1 1/2" below the skid shoes for highly aggressive cutting action. The most commonly used setting is 1/4" below the skid shoes.

The blade carrier (#1) can also be lowered on the right side more than on the left side to grade a crown in the middle of a roadway.



Blade Height Adjustment (Left Side Shown)
Figure 2-1

Initial Preparation

Refer to Figure 2-1:

1. Park Grading Scraper on a level hard surface such as a concrete pad.
2. Raise scraper several inches above ground with tractor 3-point controls.
3. Place tractor gear selector in park and/or set brakes, shut engine off and remove ignition key.
4. Place under the scraper skid shoes two narrow long blocks of wood (#3) equal to the thickness to be graded. Make sure the blocks do not extend under blade carrier (#1).

Lowering Cutting Blades

1. Complete steps 1 to 4 under "**Initial Preparation**".
2. Return to tractor seat and without starting tractor, operate 3-point control lever to slowly lower scraper skid shoes onto the blocks of wood (#3).
3. Loosen bolts (#2) on both ends of blade carrier. The blades should drop to ground level.
4. Make sure skid shoes are fully down on the blocks of wood and the blades are on the ground at both ends.
5. Retighten 5/8"-11 x 1 1/2" GR8 bolts (#2) to the correct torque.

Raising Cutting blades

1. Complete steps 1 to 4 under "**Initial Preparation**"
2. Loosen bolts (#2) on both ends of blade carrier.
3. Return to tractor seat and without starting tractor, operate 3-point control lever to slowly lower scraper skid shoes onto the blocks of wood.
4. Make sure skid shoes are fully down on the blocks of wood and the blades are on the ground at both ends.
5. Retighten 5/8"-11 x 1 1/2" GR5 bolts (#2) to the correct torque.

Crown Adjustment

1. Complete steps 1 to 3 under "**Initial Preparation**"
2. Place under the **right skid shoe** a narrow long block of wood (#3) equal to the thickness to be graded. Make sure this block does not extend under the blade carrier.
3. Place under the **left skid shoe & blade carrier** a second long block of wood (#3) equal to the thickness to be graded.
4. Loosen bolts (#2) on both ends of blade carrier.
5. Return to tractor seat and without starting tractor, operate 3-point control lever to slowly lower unit onto the blocks of wood.
6. Check to make sure skid shoes are fully down and that the blade carrier is on the block of wood on the left side and on the ground on the right side.
7. Retighten 5/8"-11 x 1 1/2" GR5 bolts (#2) to the correct torque.
8. Make all grading passes with the middle of the roadway on the left side of the scraper.

Shank Height Adjustment

CAUTION

Make adjustments to the shank height after the Grading Scraper has been properly hooked to a tractor to prevent injury!

CAUTION

Always keep your feet and legs out from under the shanks when adjusting shank height. The shanks can slip from your grip and fall causing injury to your feet and/or legs.

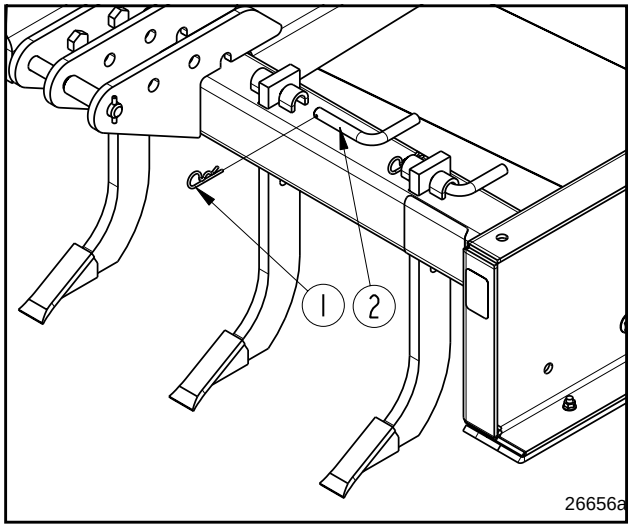
CAUTION

Keep clear of the shank slots while adjusting shank height. Shanks can pinch body parts in slots during adjustments!

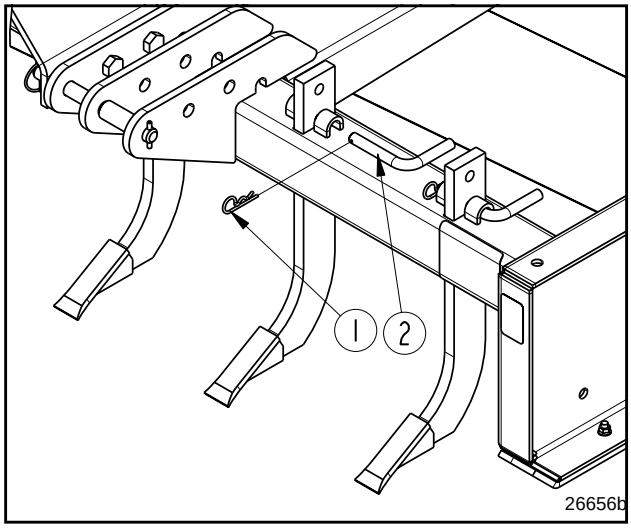
Refer to Figure 2-2:

Shank settings are based on the vertical distance measured from bottom edge of skid shoes to bottom edge of shank tips.

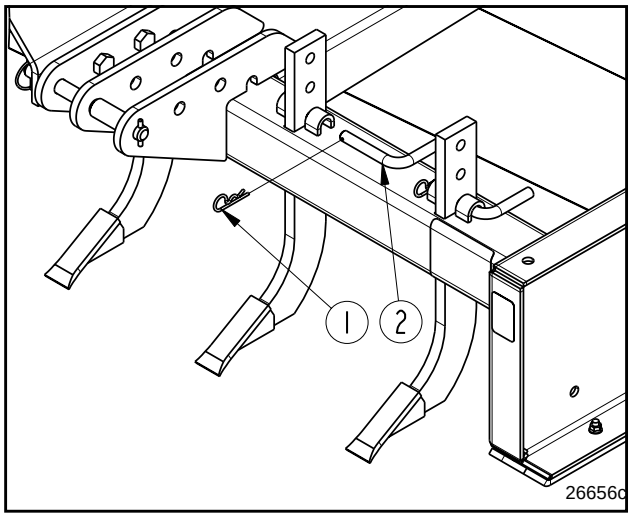
1. Hook Grading Scraper to a tractor with a category I 3-point hitch before adjusting shanks.
2. Adjust shank height by removing hairpin cotter (#1) and shank lock pin (#2).
3. Adjust shank up or down to the desired depth and then replace shank lock pins and hairpin cotter.



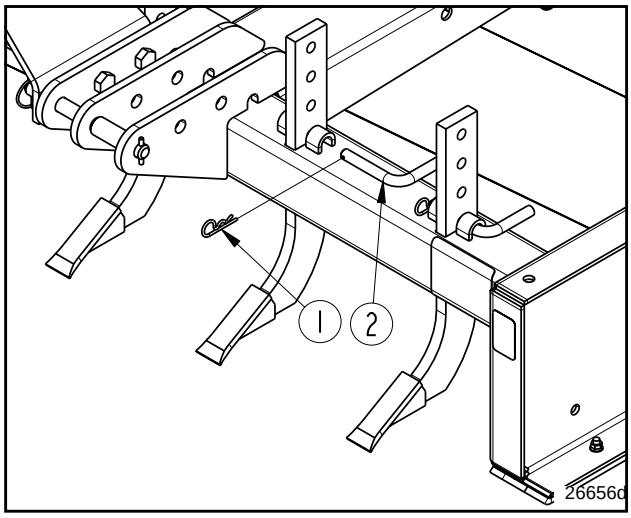
Top Hole
3 1/2” Below



Second Hole
1 1/2” Below



Third Hole
1/2” Above



Fourth Hole
2 1/2” Above

Shank Settings
Figure 2-2

Operating Check List

Hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training involved in the operation, transport, maintenance and storage of the Grading Scraper. Therefore, it is absolutely essential that no one operates the Grading Scraper without first having read, fully understood and become totally familiar with the Operator's Manual. Make sure the operator has paid particular attention to:

- **Important Safety Information**, pages 1 to 4
- **Section 1: Assembly & Set-up,** page 7
- **Section 2: Adjustments**, page 9
- **Section 3: Operating Instructions**, page 11
- **Section 5: Maintenance**, page 14

Before beginning to operate your Grading Scraper the following inspection should be performed

Operating Checklist

✔	Check	Page No.
	Check 3-point hook-up procedure. Be sure all pins have been installed and are secured. Refer to "Section 1: Assembly & Set-up".	Page 7
	All adjustments have been made and pins have been installed and are secured. Refer to "Section 2: Adjustments".	Page 9
	The operator has read and understands how to operate the Grading Scraper. Refer to "Section 3: Operating Instructions".	Page 11
	Check the scraper initially and periodically for loose bolts and pins. Refer to "Torque Values Chart".	Page 17

Operator's Responsibilities

WARNING

Do not to allow anyone near the Grading Scraper during its operation.

CAUTION

Always keep your feet and legs out from under the shanks when adjusting shank height. The shanks can slip from your grip and fall causing injury to your feet and/or legs.

CAUTION

Always keep your feet and hands out from under the blade carrier when adjusting cutting blade height. The blade carrier can fall causing injury to your feet and/or hands.

CAUTION

Be sure you are not working over any underground wiring, pipes, or other obstructions. If there is any doubt, call your public service agency.

- Follow all directions on the safety labels.
- Do not allow anyone to operate this Grading Scraper who has not been properly trained in its safe operation.
- Do not let anyone under the age of 16 operate the Grading Scraper.
- Use Grading Scraper for its intended purpose only.
- Never carry passengers or use the Grading Scraper as a wagon to carry things.
- Never use Grading Scraper to pull or tow other equipment or objects.
- Make sure all safety labels are in their proper location and in good condition before operation.
- Never work under the unit without blocking unit up properly.
- Before working the soil contact your local utility services, so they may mark locations of any under ground utility services in the area. Be sure to ask how close you can work to the marks or flags they positioned.
- All nuts, bolts, screws, and fasteners should be checked periodically for tightness. Refer to the *Torque Value Chart* in the **"Appendix"** section on page 17.
- Do not alter the Grading Scraper in a way which will adversely affects its performance or reliability or use the Grading Scraper for a purpose for which it was not designed.
- Do not turn blades around and push with the scraper. Pushing can cause structural damage to the scraper and 3-point hitch. Always pull when under load.

Transporting

CAUTION

When traveling on public roads whether at night or during the day, use accessory lights and devices for adequate warning to operators of other vehicles. Comply with all federal, state and local laws.

1. Be sure to reduce tractor ground speed when turning; and leave enough clearance so the Grading Scraper does not contact obstacles such as buildings, trees or fences.
2. Select a safe ground travel speed when transporting from one area to another.
3. When traveling on roadways, transport in such a way that faster moving vehicles may pass you safely.
4. When traveling over rough or hilly terrain, shift tractor to a lower gear.

General Operating Instructions

By now you should have read the operator's manual and properly attached your GS25 series Grading Scraper to your tractor's 3-point hitch. Whether you have chosen our GS2584 or GS2596, the working or grading principals are the same. Your two grading blades should be properly adjusted within the frame to achieve the desired effect. This may take a little experimentation to get your adjustments set just right depending on local surface conditions in the area to be graded. Simply lower your Grading Scraper until the left and right end skid shoes are firmly in contact with the ground, then begin driving forward.

Your two scraper blades should immediately begin grading or shaving off high spots on the surface and allowing dirt or aggregate material to flow under the blades to fill in low spots. The lower the blades are set, the more aggressive the cutting and grading action will be. Depending on blade settings and surface conditions, a build up may occur between the blades. This is no cause for concern as simply raising the scraper slightly with the 3-point hitch control lever will allow excess material to flow out under the blades in an even and level fashion. If an unwanted accumulation continues to occur between the blades you may want to first adjust the rear blade upward a bit our raise both blades if the unwanted condition persists.

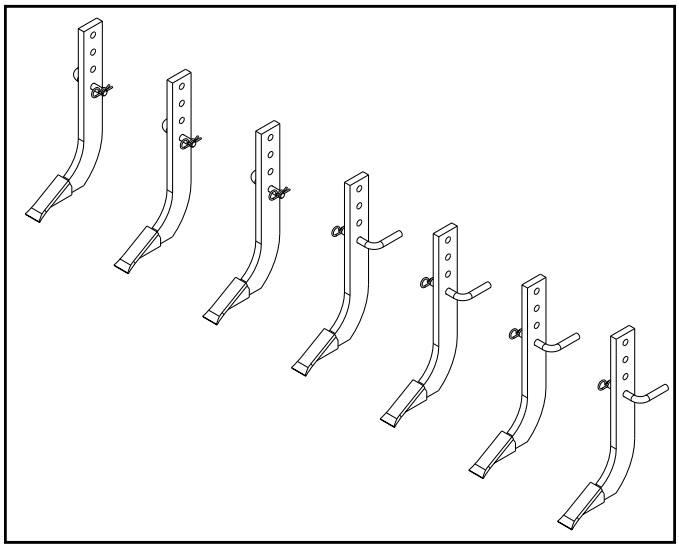
If surface conditions are such that the blades are unsuccessful in shaving off high spots on a hard-packed surface, begin lowering the optional scarifiers into working position to a depth that enables you to achieve the desired effect. The Land Pride 25 Series Grading Scrapers are very user friendly attachments and with a little practice you should begin achieving excellent results.

See "Features and Benefits" section or "Product Specifications" for additional information and performance enhancing options.

Scarifier Shanks

Refer to Figure 4-1:

Land pride offers an option for adding scarifier shanks to your Grading Scraper for breaking up soil ahead of the grader blades. The shanks can be adjusted from 2 1/2" above the skid shoes to 3 1/2" below the skid shoes in 2" increments.



GS2584 - 7 Shank Option Shown
Figure 4-1

Part Number & Description

303-261A	PACKAGE, GS2584 7 SHANK OPTION
303-260A	PACKAGE, GS2596 8 SHANK OPTION

Maintenance

Proper servicing and adjustment is the key to the long life of any implement. With careful inspection and routine maintenance, you can avoid costly down time and repair.

Check all bolts after using the unit for several hours to be sure they are tight. Replace any worn, damaged or illegible safety labels by obtaining new labels from your Land Pride Dealer.

CAUTION

Never work under the Grading Scraper without blocking it up properly first. The scraper can fall causing bodily injury.

Cutting Blades

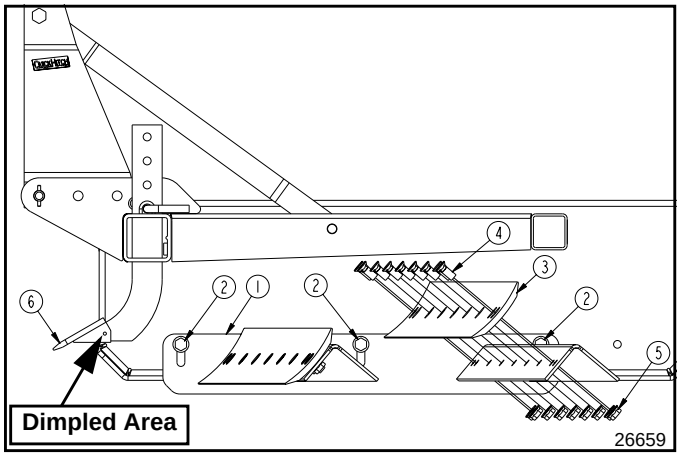
Refer to Figure 5-1:

The front and rear cutting blades (#3) have two cutting edges. Unbolt blades and turn them over when bottom edges wear out. Inspect 5/8"-11 GR5 plow bolts (#4) and nuts (#5) for wear and replace as needed. Reattach blades and tighten to the correct torque. Replace cutting blades when both edges are worn out.

Shank Tips

Refer to Figure 5-1:

Shank tips (#6) are removable by heating them in the dimpled area on both sides and knocking them off with a blunt punch. New shank tips need to be dimpled with a punch after they are installed.



Cutting Blade and Shank Tip Removal
Figure 5-1

Skid Shoes

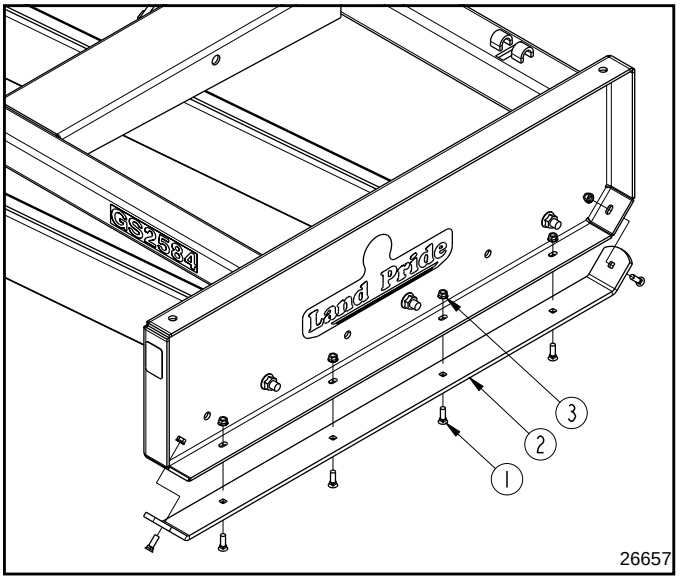
Skid shoes should be inspected at the beginning of each season and replaced when material thickness is less than 1/8" at any point. The skid shoe may be turned around to extend its wear life if one end is wearing faster than the other.

Order only genuine Land Pride parts from your local Land Pride Dealer when replacing skid shoe components.

Replace or turn skid shoe around as follows:

Refer to Figure 5-1:

1. Raise Grading Scraper 3" or more off the ground and place support blocks under the scraper. Make sure support blocks are positioned so they will not interfere with skid shoe replacement.
2. Lower scraper onto support blocks, place tractor in park, set park brakes, shut tractor engine off and remove switch key.
3. Remove 3/8" hex flange lock nuts (#3), 3/8"-16 plow bolts (#1) and skid shoe (#2) from scraper.
4. Plow bolts should be checked for wear and replaced if necessary.
5. Turn old skid shoe around or install new skid shoe to scraper with 3/8"-16 x 1" GR5 plow bolts (#1) and 3/8" hex flange lock nuts (#3). Tighten lock nuts (#4) to the correct torque.
6. Raise scraper up and remove support blocks.



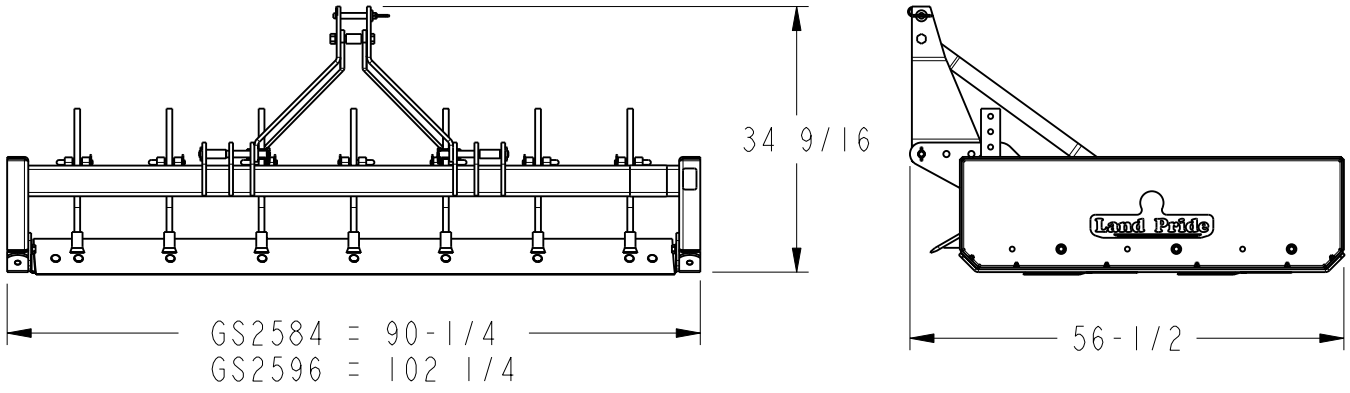
Skid Shoe Maintenance
Figure 5-2

Storage

1. It is good practice to clean off any dirt or grease that may have accumulated on the Grading Scraper at end of working season or when not in use for long periods.
2. Repaint parts where paint is worn or scratched to prevent rust.
3. Replace all damaged or missing decals.
4. Store Grading Scraper inside if possible. Inside storage will reduce maintenance and make for a longer scraper life.
5. Inspect Grading Scraper for loose, damaged or worn parts and adjust or replace if needed.

GS25 Series

Description	GS2584	GS2596
Working Width	84"	96"
Overall Width	90 1/4"	102 1/4"
Number of Scarifier Shanks	7	8
Tractor HP Requirement	40-90 hp	40-90 hp
Unit Weight with Shanks	822 lbs.	890 lbs.
Overall Length	56 1/4"	
Overall Height	34 9/16"	
Side Panel Height	14 5/8"	
Side Panel Length	50"	
Side Panel Thickness Tractor	1/4" Thick with 2 3/4" formed edges.	
Front Main Beam & Scarifier Support.	4"x 4" x 5/16" Reinforced heavy wall tubing.	
Rear Beam Construction	3"x 3"x 3/16" Heavy wall tubing.	
Skid Shoe Dimensions	3/8" Thick x 2 3/4" wide x 50 1/4" long.	
Skid Shoe Material	Constructed of high carbon steel	
Scarifier Shank Construction - Optional	Heat treated 4-position shank with dimpled-on hardened tips.	
Cutting Edges	Two 1/2" x 6" high carbon heat treated blades that are reversible and replaceable.	
Cutting Edge Placement	Two parallel grading blades positioned at a 5 degree grading angle with 20" fore and aft spacing in between leading edges.	
Cutting Edge Adjustment	Infinite vertical adjustment from level grade to 1 1/2" below grade.	
Shank Adjustments	3 1/2" and 1 1/2" below grade level. 1/2" and 2 1/2" above grade level.	
Lower Draft Link Attachment	Clevis type	
Hitch Type	Category I and Category II 3-Point Hitch Category I & II Quick Hitch Compatible	
Color Selections	Land Pride beige or orange	



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GS25 Series

Features	Benefits
Cat. I and Cat.II Quick Hitch compatible. Has lower hitch clevis type mountings.	Makes for faster and easier hookup to the tractor.
40-90 hp requirements	Makes it compatible with many popular smaller sized and properly ballasted compact utility tractors in use today.
Dual adjustable height grading blades and optional 4-position scarifier shanks.	Allows the scraper to be adjusted to desired amount of cultivation, leveling and grading action.
Reversible heat treated high carbon steel grading blades.	For excellent wear resistance and long service life.
Hardened tips on optional scarifier shanks.	Assures long service life.
Replaceable and full length heavy gauge skid shoes.	Makes for easier operation and long unit life.
Skid shoes are constructed of high carbon steel	Extends the wear life of the skid shoes.
Reversible skid shoes	Extends the life of the skid shoes.
Heavy duty frame construction.	Assures long lasting reliability and performance.
Available in Land Pride Beige or Orange Paint.	To meet customers preference.

Torque Values Chart

Bolt Size (Inches)	Bolt Head Identification Grade 2		Grade 5		Grade 8	
in-tpi [1]	N · m	ft-lb [3]	N · m	ft-lb	N · m	ft-lb
1/4" - 20	7.4	5.6	11	8	16	12
1/4" - 28	8.5	6	13	10	18	14
5/16" - 18	15	11	24	17	33	25
5/16" - 24	17	13	26	19	37	27
3/8" - 16	27	20	42	31	59	44
3/8" - 24	31	22	47	35	67	49
7/16" - 14	43	32	67	49	95	70
7/16" - 20	49	36	75	55	105	78
1/2" - 13	66	49	105	76	145	105
1/2" - 20	75	55	115	85	165	120
9/16" - 12	95	70	150	110	210	155
9/16" - 18	105	79	165	120	235	170
5/8" - 11	130	97	205	150	285	210
5/8" - 18	150	110	230	170	325	240
3/4" - 10	235	170	360	265	510	375
3/4" - 16	260	190	405	295	570	420
7/8" - 9	225	165	585	430	820	605
7/8" - 14	250	185	640	475	905	670
1" - 8	340	250	875	645	1230	910
1" - 12	370	275	955	705	1350	995
1-1/8" - 7	480	355	1080	795	1750	1290
1 1/8" - 12	540	395	1210	890	1960	1440
1 1/4" - 7	680	500	1520	1120	2460	1820
1 1/4" - 12	750	555	1680	1240	2730	2010
1 3/8" - 6	890	655	1990	1470	3230	2380
1 3/8" - 12	1010	745	2270	1670	3680	2710
1 1/2" - 6	1180	870	2640	1950	4290	3160
1 1/2" - 12	1330	980	2970	2190	4820	3560

Bolt Size (Metric)	Bolt Head Identification 5.8 Class 5.8		8.8 Class 8.8		10.9 Class 10.9	
mm x pitch [4]	N · m	ft-lb	N · m	ft-lb	N · m	ft-lb
M 5 X 0.8	4	3	6	5	9	7
M 6 X 1	7	5	11	8	15	11
M 8 X 1.25	17	12	26	19	36	27
M 8 X 1	18	13	28	21	39	29
M10 X 1.5	33	24	52	39	72	53
M10 X 0.75	39	29	61	45	85	62
M12 X 1.75	58	42	91	67	125	93
M12 X 1.5	60	44	95	70	130	97
M12 X 1	90	66	105	77	145	105
M14 X 2	92	68	145	105	200	150
M14 X 1.5	99	73	155	115	l215	160
M16 X 2	145	105	225	165	315	230
M16 X 1.5	155	115	240	180	335	245
M18 X 2.5	195	145	310	230	405	300
M18 X 1.5	220	165	350	260	485	355
M20 X 2.5	280	205	440	325	610	450
M20 X 1.5	310	230	650	480	900	665
M24 X 3	480	355	760	560	1050	780
M24 X 2	525	390	830	610	1150	845
M30 X 3.5	960	705	1510	1120	2100	1550
M30 X 2	1060	785	1680	1240	2320	1710
M36 X 3.5	1730	1270	2650	1950	3660	2700
M36 X 2	1880	1380	2960	2190	4100	3220

[1] in-tpi = nominal thread diameter in inches-threads per inch

[2] N· m = newton-meters

[3] ft-lb= foot pounds

[4] mm x pitch = nominal thread diameter in millimeters x thread pitch

Torque tolerance + 0%, -15% of torquing values. Unless otherwise specified use torque values listed above.

Notes

Warranty

Land Pride warrants to the original purchaser that this Land Pride product will be free from defects in material and workmanship beginning on the date of purchase by the end user according to the following schedule when used as intended and under normal service and conditions for personal use.

Overall Unit: One year Parts and Labor

Scarifier Shanks, Skid Shoes & Cutting Blades: Considered wear items.

This Warranty is limited to the replacement of any defective part by Land Pride and the installation by the dealer of any such replacement part, and does not cover common wear items. Land Pride reserves the right to inspect any equipment or parts which are claimed to have been defective in material or workmanship.

This Warranty does not apply to any part or product which in Land Pride's judgment shall have been misused or damaged by accident or lack of normal maintenance or care, or which has been repaired or altered in a way which adversely affects its performance or reliability, or which has been used for a purpose for which the product is not designed. Misuse also specifically includes failure to properly maintain oil levels, grease points, and driveline shafts.

Claims under this Warranty should be made to the dealer which originally sold the product and all warranty adjustments must be made through an authorized Land Pride dealer. Land Pride reserves the right to make changes in materials or design of the product at any time without notice.

This Warranty shall not be interpreted to render Land Pride liable for damages of any kind, direct, consequential, or contingent to property. Furthermore, Land Pride shall not be liable for damages resulting from any cause beyond its reasonable control. This Warranty does not extend to loss of crops, any expense or loss for labor, supplies, rental machinery or for any other reason.

No other warranty of any kind whatsoever, express or implied, is made with respect to this sale; and all implied warranties of merchantability and fitness for a particular purpose which exceed the obligations set forth in this written warranty are hereby disclaimed and excluded from this sale.

This Warranty is not valid unless registered with Land Pride within 30 days from the date of purchase by the end user.

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